69 1 GTCGAGGCAGTCACTAACATGAAGTTTGACGAGGAGCCCAACTATGGGAAGCTTATTTCTCTTTTTCGAT
3 Tadi Saci AluI HindII HhaI XbaI pGN1 TadI

207 139 TITCTIGITCATATGATTAACTICTAAACTIGTGTATAAATATICTCTGAAAGTGCTTCTTTTGGCATA 206 NdeI

208 TGTAGGTTGGGCAAAAACGAGGAAGATTGCTTCTCAATTTGGAAGATGATGAACAGCCGAAGAAGAAAA 276

345 277 TAAGAATAGGCAGTCCTGCTACTCAATGGATCTCAGTCTATAACGGTCGTCGTCCATGAAACAGAGGT Sau3AI DdeI

FIG. 1A

414	483	552	621
ECORV 146 AACACATTTTTGCADATACACTTTGATAGTTCCTCACTAACTGTGTAATCTTTTGGTAGATATCACTA 408	Mspi Hpall Alul Hhai 	Alui 	MSpI HpaII HinfI 553 TGAGTTGTCACGGTCTTCCTACAGGTAATAATCAGTTGAAGCAATTAAGAATCAATC

622 AGTAAAC[†]AAGAAGAACTTACCTTATGATTTCCCCGCAGGACTGGATTATGGAACAATGGGAAAAGAAC 629 FIG.

069

759

828

HinfI DdeI

996 898 TGGAAAGAAGTTTTCATGTAACCTCCATGACAACTGCTGGTAATCGTTGGGGTGTGGTAATGTCGAGG 909 TagI Xmn I

Sau3AI BclI

1036 TCTAATATGATAAACTCTGCGTTGTGAAAGGTGGTGGAGCTTGACTTTTTGTACCCAAGCGATGGGATA 1104 1075 1088 RsaI AluI

	1173	
Alaß	 	1166
Sau3AI	105 CATAGGAGGTGGGAGAATGGGTATAGAATAACATCAATGGCAGCAACTGCGGATCAAGCAGCTTTCATA 1173	1156
	S CATAGGAGGTGGGAGA	
	10	

1174 TTAAGCATACCAAAGCGTAAGATGGTGGATGAACTCAAGAGACTCTCCGCACCACCGCCTTTCCAAGT 1242 HinfI

Sau3AI Scal

HinfI RsaI AluI Dder Avali

1381 CATCAATATGCTATGGCAGGACAGTGTGCTGATACACACTTAAGCATCATGTTGTTGTTAGAAAG 1449

1450 CCGAAGACAATTGGAGCGAGCCTCAGGTCGTCATAATACCAATCAAAGACGTAAAACCAGACGCAGTC 1518 1472 1472 rchlllr MstII DdeI

FIG. 1D

RsaI

1588 ATTGAGTAGAAAAATTTGAGAGCTTTTTAAAGCCCTTCAAGTGTGTGCTTTTATCTTATTGATATC 1656 1613 1619 ECORV AluI DraI

DdeI

Tagi Hinfi 1790 1788 HinfI

Ecori

IG. 1E

	0	6
SphI CA 200 2000	207	. 213
Sp TGCA 20	NdeI TATG 2067	r
AGCA	CACA	ວອອວ
iatt	?ACA(3GCTV
ACA	GCAC	'AGA(
CATC	CACA	AATT
AluI CTACA 1978	CTCT	TATA
aagc 1	AluI CTTCT 2043	CACC
VI ACATO	A - 2	FTCT
Bstni - 1968	AAAC	CCA
)))	CCTP	ATCI
GTCA	AACA	GCAZ
AGA1	TTC	NI SCCA1
'CAT'	TCAC	Sau3ĀI GATCGC 2089
CGT	TCAC	
ATA1	TTTC	TACE
AAAA	ACGA	I TATI 5
TTTG	9909	SphI NsiI ATGCAAT 2073 2073
, BstNI AluI SphI SphI SphI 1933 TTTTTGAAAAATATCGTTCATAAGATGTCACGCCAGGACATGAGCTACACATCACATATTAGCATGCA 2001 1968 1978 2000	Alui 	Sphi Nsii Sau3AI 2071 CATGCAATATTACACGTGATCGCAAATCTCCATTCTCACCTATAAATTAGAGGCTCGGCTTCA 2139 2073 2075
1933	2002	2071

2140 CTTTTTACTCAAAACTCATCACTACAAAACATACACAA<u>ATG</u>GCGAACAAG¢TCTTC 2200 Met 2195 AluI

FIG.

Lambda CGN1-2

208 TGTAGGTTGGGCAAAAACGAGGAAGATTGCTTCTCAATTTGGAAGAGGATGAACAGCCGAAGAAGAAAA 276 139 TTTCTTGTTCAPATGATTAACTTCTAAACTTGTGTATAATATTCTCTGAAAGTGCTTCTTTTGGCAPA 207 277 TAAGAATAGGCAGTCCTGCTACTCAATGGATCTCAGTCTATAACGGTCGTCGTCCATGAAACAGAGGT 345 Tagi Ayai Ayai I CTCGAGGCAGTCACTAACATGAAGTTTGACGAGGCCCAACTATGGGAAGCTTATTCTCTTTTCGAT Sau3A1 Dde1 NCG-186 Linear Xhol Taqi Avai

FIG. 2A

346 AAAACATTTTTGCATATACACTTTGAAAGTTCCTCACTAACTGTGTAATCTTTTGGTAGATATCACTA

A DA

483		552	621	9	759
Alul TAGCTG	481	AGITIA	SATTIGI	IAAGAAC	TAGTGT
Haelll GAAGATGGCCTTTTGAT	469	Hinfi ACTGGATTCACTTCTCA	535 HINFI AATTAAGAATCAATTTE	606 Ttatggaacaatgggaa	itgttatgtcaaaaggi
FIG. 2B Haelil Ball Ball Alul Haelil Hae		Alul Alul Hinfl Hinfl Harctctgggctctcatgatggtggaactggattcattaggtta 552	498 MSD HDall 553 TGAGTTGTCACGGTCTTCCTACAAGGTAATAATCAGTTGAAGCAATTAAGAATCAATTTGATTTGT 621	564 564 Dde 1 1 622 AGIAAACTAAGAAGAACTTACCTTATGITTTCCCCGCAGGACTGGATTATGGAACAATGGGAAAAGAAC 690	Saci Alul Alul Alul 691 TACTATATAAGGTCCATAGCTGGTTCAGATAACGGGGGGGCTCTTTAGTTGTCAAAAGGTTAGTGT 759 702 710 729
HINCAN HREE HREE HREE BS TE BS TE BS TE BS TE BS TE BS TE	438 438 438 439 439 440 438	Alul CTAATCTCTGGGC	38 TTCCTACACAA	CTTACCTTATE	Alul 710
FIG. 2B , 5 CATGTCGGAGAGACA		TGTAGCATCAGCAGC	498 Mspl Hpall TGAGTTGTCACCGGTCT	564 564 Dde 1 1 AGTAAACTAAGAAGAA	629 Alul Tactatataagctcca 702
#15 , T		484	553	622	691
					-

829°GAACTACTTATTC CAGCAGTCATACAAAGTGAGTGACTCATTTCCGTTCAAGTGGATAKATAAGAAAT 897

Xmn

Sau3A I

967 ACTCTGGCTTCTCTGATCAGGTAGGTTTTTGTCTTATTGTCTGGTGTTTTTATTTTCCCCTGATAGT 1035

1074 1087

SAUJAI 1105 Ataggaggaggaggaatgaatagaatgaatgaggaactggggatcaaggattaatat 1173

1155 11

1174 TANGCATACCAAAGCGTAAGATGGTGGATGAAACTCAAGAGÁCTCTCCGCACCACCGCCTTTCCAAGTÁ 1242

1215

242

FIG. 20

CTC	TGTCAAGGTTGGTTTCTTTAG	Alu! 	Alul Sau3AI Ndel Nd	Ddel
-		1268	1285	1311
= = ==	Avall Avall Gaccigagagcttttggttgat	TTTTTTCA6GACAA	Avali Alul Avali 1312 TAGGACCTGAGAGCTTTTGGGACAAATGGGCGAAGAATCTGTACATTGCATCA 1380	TCA 1380
	1315 1325 1319		1363 1370	
9	SCTATGGCAGGACAGTGTGCT	GATACACACTTAAGCA	1381 ATATGCTATGGCAGGACAGTGTGCTGATACACTTAAGCATCATGTGGAAAGCCAAAGACAATTGGAG 1449	5A6 1449
	Hinfi Ddei Actcagggtcgtcataatacc	Aatcaaagacgtaaaa	Hinfl Ddel Candacticaggetcetcataataccaatcaagacgtaaaaccagacgcaacctctttggttgaatgta 1518	, 5TA 1518
	1456 1454			
•	AGGGATGTGTCTTGGTATGT	RSal ATGTACAAA	RSAI 1519 ATGAAAGGGATGTGTTTGGTATGTACGAATAACAAAGAGAAGATGGAATTAGTAGTAGAAATA 1587	VTA 1587
		1548		
	AluI		EcoRV	

Xbal | Dde! | Dd

1687

1664

1588 TTTGGGAGCTTTTTAAGCCCTTCAAGTGTGCTTTTTATCTTATTGATATCATCCATTTGCGTTGTTTAA 1656

1635

1596

1795 TGCTGÄATCTATCACACTAGAAAAAACATTTCTTCAAGGTAATGACTTGTGGACTATGTTCTGÄATTC 1863

1864 ICATTAAGTITITATTITCTGAAGTTTAAGTTTTACCTTCTGTTTTGAAATATATCGTTCATAAGATG 1932

Sphi Sausai Saus

1950

1973 1971

2006 2012

2071 ATCTCCATTCTCACCTATAAATTAGAGCCTCGGCTTCACTCTTTACTCAAACCAAAACTCATCACTACA 2139

Alui

FIG. 2E

				FIG. 2F
2277	2346	2415	2484	2553
Nael Sall Hspl Hspl Hspl Hspl Hspl Hspl Hspl Hs	HINFI Alul Alul Alul Alul Alul Alul Alul Alu	Mspl Avall A	Saci Apai Haetti 2416 GTGGAGCAACCAACAGGGCCGCAGCAGCGCCAGCAGTGCTGCAACGAGCTCCAC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BSTNI 1841 2485 CAGGAAGAGCCACTTTGCGTTTGCCCAACCTTGAAAGGAGCATCCAAAGCCGTTAAACAACAAATTCGA 2553 61nGluGluProLeuCysValCysProThrLeuLysGlyAlaSerLysAlaValLysGlnGlnIleArg 25486
2209	2278	2347	2416	2485

	_
	269
BSTNI	2623 ACGCACTTACCTAGAGCTTGCAACATCAGGCAAGTTAGCATTTGCCCCTTCCAGAAGACCATGCCTGGG 2691 Thrilisteuproargalacysasnileargginvalserilecyspropheginlysthrmetprogly 2639
, Inc.	CTTGCAACATCAGGCAAG BCYSASHI LEAFOGINV 2639
	GAG
4	ACGCACTTACCTA Thriisteuproa
	2623

•	2760
	2692 CCGGCTTCTACTAGÀTTCCAAACGAATATCCICGAGAGTGTGTĀTACCACGGTGATATGAGTGTGGTT 2760 Processor 2707 2694 2694 2694
	6AGTG
	GATAT
	ACGGT
Ácci	¹ 2736
	16161
Xhoi Faqi Ayai	CGAGAG 2725 2725 724
₹ 4.	ATCCTC 2
	CGAAŢ
Ξ	CCAAA 17
Hinf	A6ÅTTC 2707
	CTACT
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	660 694 694 694 694
E .	26 26 26 26 26 26
	269

HINCII 2761 GTTGATGTATĞTTAACACTACATAGTCATGGTGTGTTCCATAAATAATGTAATGTAATAAGAAC 2829 2813 277.1

2830 TACTCCGTAGACGGTAATAAAAGAGATTTTTTTTTTTACTCTTGCTACTTTCCTATAAAGTGATGAT 2898 Acc1 2838

2899 TAACAACAGATACACCAAAAAGAAACAATTAATCTATATTCACAATGAAGCAGTÄCTAGTCTATTGAA 2967 Scal

2954 2954

FIG. 2G

2968 CATGTCAGATTTTCTTTTCTAAATGTCTAATTAAGCCTTCAAGGCTAGTGATGATAAAAGATCATCCA 3036

Sau3A P

Sau3A I BC I I

Bamfii uinfi 3037 atgggatccaacaaagactcaaatctggttttgatcagatacttcaaaactattttgtattcattaaa 3105

3069

3016 ITATGCAAGTGTTCTTTTATTTGGTGAAGÄCTCTTTAGAAGCAAAGAACGACAAGCAGTAATAAAAAA 3174 inne

3135

3313 TATATTAAGTITCATTICTGTTCAAACAİATGATAAGATGGTCAAATGATTATGAGTITTGTTATTIAC 3381

Alujani Rabi Alujani Jahi 3382 CTGAAGAAAAGATAAGGGTTCTGAAGGGTACGTGATCTTCATTTCTTGGCTAAAAGCGA 3450

3402 3405

3451 ATATGACATCACCTAGAGAAAGCCGATAATAGTAAACTCTGTTCTTGGTTTTGGTTTAATCAAACCGA 3519 FIG. 2H

				FIG. 21
	ITITAAICIAAIITITIGCA 3657	IIIncii Bathi Aagcagacannaagaa 3726 3718	ACGGGGAGGAAGAGAATGR 3795 AVBII ITTTGGTGGCGGGGGGGA 3864	3863 pdel (CGTTTACTCTTTTCTTAG 3933 3930
	HSP1 CGGTATTTCATTTGGTGAAAACCCTAGAAGCCAGCCANCCTTTTTAATCTAATTTTTGCA 3657 3598 3598	IIIncii Bathi ITCACCACACCTCCCACTAAACCCTGAACCTTACIGAGAAGCAGGAGACAAGAA 3726 3702 3714	CCCGAAGATGAGACCACCACGTGCGGCGGGACGTTCAGGGGACGGGGGGGG	AVBII GGACCTCCCAGTGAAGTCATTGGTT 3892
Hapli Aul 3520 Accestacticastercaastcaca 3522 3528 3522 3528		3658 AACGAGAAGICACCACACCTCTCCAC	3727 CAAATAAAACCCGAAGATGAGACCACCACGTGCGGCGGACGTTCAGGGGACGGGAGGGA	3863 5865 CCTTTGGTGGATATCGTGACGAAGGACCTCCCAGTGAAGTCATTGGTTCGTTTACTCTTTTCTTAG 3933 3880 3892
3520	3589 (3658	3727	3865

3934	Teglari Ilaki 3934 TCGAAICTTATTCTTGCTCTGCTTGTTTTACCGATAAAGCTTAAGACTTTATTGATAAAGTTCFCA 1003	Ddef
£	3935 3976 3976	4000
4003	HINFI TTTGAGTTGÅTCACTGTC	Dde1 11A 4071
	4004 4023 4059	6904
4072	4072 GCACTTITGITAGATICATCTITGIGITITAAGITAAAAGGIAGAAACTTTGIGACTTGICTCCGTTATG 4140	ATG ATAO
4	4085 	
- - - -	4141 ACAAGGITAACTITGTTGGTTATAACAGAAGTTGCGACCTTTCTCCATGCTTGTGAGGGTGATGCTGTG 4209 4146	616 4209
4210	AVBLI ALUI DOBL SBUJALI 4210 GACCAAGCTCTCTCAGGGGAAGATCCCTTACTTGAATGCCCCAATCTAGTTGGAAAACAAGACACAGAT 427A	GAT 4278
	4210 4217 4222 4231 Taqi	
	Pati Hindili Hincil Sausai Alul Acci Econi	
4279	ic T	
	4294 4302 4316 4321 4300 4314	
	4315 FIG. 2J	-

Brassica campestris ACP Genomic Sequence

	ر.
Dder Alur Alur	
Acci	AAGAGTATGTCTACTACTACTCTA

138 70 GTTTGATGTTGTTGTAGGTATGGTAAATCATGGAAAGAGATAAAAGAATGCAAACCCTGAAGTATTGG

	207
DdeI	 139 CAGAGAGGACTGAGGTGAGAGAGAGCATGTCATTTTTTTT
	H

345 277 GGTAGCGGTAACAAGTTTTATATTGCTATGAAGCTTTTTTTGCCTGCGTGACGTATCAGCAGCTGTGGAG PvuII AluI HindIII AluI

FIG. 3A

414	483	552	621	069
MSpI Hpali Haeili 	415 GGTTAAGACTTGTTGAGAGACGTGTGGGGGTTTTTTGATGTATTAGTCTGTGTTTTAGAACGAAACAA	TCh11111 TCh11111 TCh11111 TCh11111 TCh111111 TCh11111 TCh111111 TCh111111 TCh111111 TCh111111 TCh111111 TCh111111 TCh1111111 TCh11111111 TCh111111111 TCh111111111111111111111111111111111111	Sau3AI Bglil Rsal	HinfI HaeIII DraI DraI DraI DraI MspI DdeI

FIG. 3B

759	828	897	996
TAGTTTTAAGAC	HindIII AluI AGCTTATAAAT 819	HaeIII SCCCATGTTATCA 886	StuI HaeIII ' PACAGGCCTTAA 961
ragi Hinfi Drai CGATTCAGTCAATTCTTCAAGGTAATGGGCTGAATACTTGTATAGTTTTAAGAC 701 715 699	TCATTGTTTAGAGTGCACCA	acttaacattccttaaaagg	StuI HaeIII BstNI AGCCAGGCCTTAAAAGACTT 939 942
DraI TAAATTCTTCAAGG: 715	I GTTATCATAAAACG:	StuI HaeIII ACAGGCCTTAAAAG; 857 857	AluI ACCAAGCTAAATGT2 927
TagI HinfI SAATTTCGATTCAGTCAATTT 701 699	StuI HaeIII HaeIII 	StuI HaeIII StuI BstNI HaeIII 829 GTAGCCAGGCCTTAAAAGGCCTTAAAAGGCCCATGTTATCA 835 857 857 838	StuI HaeIII HaeIII AluI BstNI HaeIII HaeIII HaeIII 927 939 942 961
691 TGCAATTT	760 TT	829 GT.	898 TA

FIG. 3C

	•			
AluI AvaI 	aI TaqI GGGAATATCG 1104 93 1103	Tth1111 TagI SalI HincII AccI	_	CTTGATGTTT 1242
HindIII AluI AGCTTATAAATGTAGC 1010	xhoi Tagi Sau3Ai Avai Bglii Avai TCGAGCAGATCTCTCGG(1078 1085 1093 1079 1085	TTCTCTGGTAATCTC	ırSerLeu	Sau3AI . GCCTCTGATCTGTTG
HindIII AluI AvaI AluI AluI AluI AvaI AggCCCATGTTATCATAAAAACGCCGTCGTTTTTGAGTGCACCAAGCTTATAAATGTAGCCAGCTACCTC 1035 1012 1010	XhoI TaqI Sau3AI AvaI BglII AvaI TaqI 10485 1093 1103 1079 1085	STCTCCATGCAAGCCAC	/alserMETGlnAlaTh	Sau3AI BclI Sau3AI Sau3AI Sau3AI
FATCATAAAACGCCGTC	RsaI CTCTTTGTACACTCCGC 1055	ACTTTCTGCTCTTCCG	ThrPheCysSerSerV Sau3AI	Sau3AI BCII
HaeIII 967 AAGGCCCATGTY 8971	1036 GGGACATCACGC	Tth1111 TagI SalI HincII ACCI 1105 ACAATGTCGACC	METSer'nn 1112 1110 1111 1112 1108	SE TGTGTTCCCAGE 11

30

FIG.

1311	1380	1449	1518	1587
HinfT ACGAATCTTTAG 1303	raqi Sau3Ai cGATCTGTATTCA 1369 1368	'. 'TTGTTGTATTGA	AACGACTAATCTC cThrThrAsnLeu	DdeI
HincII 	Sau3AI BclI	hinfi AluI 	AluI 1450 TGGAACAAACAACAACGAGGATTAGTTTCCAGAAGCCAGCTTTGGTTTCAACGACTAATCTC AlaAlaThrThrArgIleSerPheGlnLysProAlaLeuValSerThrThrAsnLeu	Hhai Ddei
Hj 	1312 TC	1381 T	1450 T	1519 I

FIG. 3E

HaeIII ATTTGGTTTATTAGGCCAAACCAG ATTTGGTTTATTAGGCCAAACCAG ATTTGGTTTATTAGG	rcaaagacgaccaaaaggrcgrrg 1725 euLysaspaspglnLysValVala	PAAGTCATCATTCTCTTATG 1794	Sphi 	DdeI AluI WAAGCTCAGAAGATTGCTACTGTG 1932 YSAlaGlnLySIleAlaThrVal 1913 1914	
rsal 1616	Ddel 	Sau3AI HinfI TaqI 	Ddel Sphi 	ATGGG Meta	#C . 914

1911 GAGGAAGCTGCTGAACTCATTGAAGAGCTCGTTCAACTTAAGAAGTAATTTTAAGAGCAGCCA 2001 GluglualaalagluLeuIleglugluLeuvalglnLeuLysLys 1940 1960 Saci

2002 AGGCTTTGTTGGGTTYGTYGTYTYCATAATCTYCCTGTCATYTYTCTTYTYCTYTYTAATGTGTCAAGCGAC 2070 2069 HinfI

2071 TCTGTTGGTTTÅAAGTAGTATCTGTTTGCCATGGATCTCTCTATTTGTCTGAAAACTTTTGGTT 2139 2100 TagI Sali Acci HincII 2119 2120 SaulAI

HindIII AluI 2140 TACACATGAAAGCTT 2154 2152 2150 FIG. 3G

Brassica Campestris Seed Specific cDNA-EA9

69	138	207	276
Sau3AI TTCAACTTTTCTAAACCAAATGGCTTTTAACACAGATCCAAATCTTTTCTCATTGTCTCTTAGTCTCAATC METALALeuThrGlnIleGlnIlePheLeuIleValSerLeuValSerSe 34	TaqI Sau3AI ClaI ClaI	HaeIII 	Hpall Dral 208 ACGCAACGTGGAACGCATTGAACGCTTAAATGACGTTCAATCCGGACTAACGTTTAAACTCGCGGTGAA sArgAsnValGluArglleGluArgLeuAsnAspValGlnSerGlyLeuThrPheLysLeuAlavalAs

Complete nucleotide sequence of B. campestris cDNA EA9. The longest open reading frame is designated by three letter amino acid code. PolyA tails are evident at the end of the sequence and a potential polyadenylation signal is underlined.

FIG. 4A

414 483 552 277 CCAGTTTGCTGATCTAACCAACGAAGAATTCCGTTCTATGTACACTGGTTTCAAAGGAAACTCTGTT nGlnPheAlaAspLeuThrAsnGluGluPheArgSerMETTyrThrGlyPheLysGlyAsnSerValLe 318 uSerSerArgThrLysProThrSerPheArgTyrGlnAsnValSerSerAspAlaLeuProValSerVa lAspTrpArgLysLysGlyAlaValThrProlleLysAspGlnGlyLeuCysGlySerCysTrpAlaPh 435 346 GTCTAGTCGAACTAAACCAACGTCGTTTAGGTACCAAAACGTTTCTTCTTGATGCGTTGCCGGTTTCTGT 415 TGATTGGAGGAAGAAGGAGCTGTGACTCCTATCAAGGATCAAGGCTTATGCGGATCTTGTTGGGGCGTT 484 TTCAGĊTGTTGCGGCTATAGAAGGAGTAGCACAGATAAAGAAAGGGGAAACTCATTTCTTTGTCTGAACA Sau3AI Sau3AI KpnI RsaI ECORI AluI Sau3AI TaqI PvuII AluI

FIG. 4B

621	069	759	82	897
Taql Sall Hincli Alul Acci Alul Acci Column C	622 CACAATAACTATTGGCGGCTTAACCTCTGAATCAAATTATCCTTATAAAAGCACAAACGGCACTTGCAA 6 rThrileThrileGlyGlyLeuThrSerGluSerAsnTyrProTyrLysSerThrAsnGlyThrCysAs	Hpall 	GGAGATATTGGTTTTCCA GlyAspIleGlyPheGl	Sau3AI HpaII BclI
AGAGG nG1ul	CACA	CTTCAA' nPheAsi	AGCC	ATTCTA: nPheTy1
553	622	691	760	829

FIG. 4C

996	1035
Scal Sau3AI HaeIII HaeIII BamHI ECORI AVAII	Sau3AI ECORV
Scal Real BamHI ECOF TTAAAGTACTGGATCCTCAAGAAT LeuLysTyrTrp11eLeuLysAsnS 931 927 931	ECORV AAGATATCAAGCCTAAACACGG 1ySASDIleLySProLySHisGly 995
Sau3AI HaeIII 3 ATACGGCCGATCTAAAAACGGA7 YTYrGlyArgSerLysAsnGlyI 904 906	Sau3AI ACGTGGATACATGAGGATCAAAA UArgGlyTyrMETArgIleLysL 982
89	967

1036 TTCGTACCCAACTATGTGAAAAATCGGTTCAATATCCGGTTAAGCTTTAG<u>AATAAA</u>TGTGTGTGTTTGG 1104 aSertyrProthrmet 1041 HindIII AluI 1081 1079 Hpall RsaI

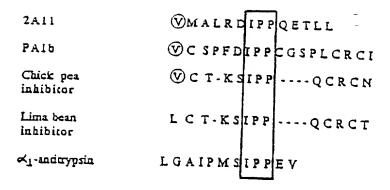
1105 TTATAATTTAAGACTCTGTTGCATGTAATTTGTGAAATGGTAAGTTTATGTGATGCAAAAGATTTGATA 1173

1174 AAAAAAAAAAA 1186

FIG. 4D

3H11	TTTTTTTGAGCAAAGGCCAACTCAGATATCCAAAGATGAATCCAACATATA	51
3H11	GCTTACAGCTGGGAGAACATTGTCTAACTCTTCTGAAATTTAAATGTTATC	102
3H11	CAGAATCCTTCATCATAAAATAATATCAAAATGCAAATCTATTTTTCTAC	153
3H11	TCTTGTCTAGCTTCAACTTTCTTCTTCTGCTCATCAATTAGCAATTAATCC TGCTCATCAATTAGCAATTAAT <u>CC</u>	204
3H11 2A11	AAAACCATTATGGCTGCCAAAAATTCAGAGATGAAGTTTGCTATCTTCTTC AAAACCATTATGGCTGCCAAAAATTCAGAGATGAAGTTTGCTATCTTCTTC METAlaAlaLysAsnSerGluMETLysPheAlaIlePhePhe	255
3H11 2A11	GTTGTTCTTTTGACGACCACTTTAGTTGATATGTCTGGAATTTCGAAAATG GTTGTTCTTTTGACGACCACTTTAGTTGATATGTCTGGAATTTCGAAAATG ValValLeuLeuThrThrThrLeuValAspMETSerGlyIleSerLysMET	306
3H11 2A11	CAAGTGATGGCTCTTCGAGACATACCCCCACAAGAAACATTGCTGAAAATG CAAGTGATGGCTCTTCGAGACATACCCCCACAAGAAACATTGCTGAAAATG GlnValMETAlaLeuArgAspIleProProGlnGluThrLeuLeuLysMET	357
3H11 2A11	AAGCTACTTCCCACAAATATTTTGGGACTTTGTAACGAACCTTGCAGCTCA AAGCTACTTCCCACAAATATTTTGGGACTTTGTAACGAACCTTGCAGCTCA LysLeuLeuProThrAsnIleLeuGlyLeuCysAsnGluProCysSerSer	408
3H11 2A11	AACTCTGATTGCATCGGAATTACCCTTTGCCAATTTTGTAAGGAGAAGACG AACTCTGATTGCATCGGAATTACCCTTTGCCAATTTTGTAAGGAGAAGACG AsnSerAspCysIleGlyIleThrLeuCysGlnPheCysLysGluLysThr	459
	GACCAGTATGGTTTAACATACCGTACATGCAACCTGTTGCCTTGAACAATA GACCAGTATGGTTTAACATACCGTACATGCAACCTGTTGCCTTGAACAATA	510

	3H11	TCACGTATTTATTTCACTTATGATACGTATTTTTGTTCCTTTCGCGTAAAA	765
•	3H11 2A11	GATTGTTTGAATAAAÁCATACCATGAGTGAAATAATTATTCCACATTAAT GATTGTTTGAATAAAAACATACCATGAGTGAAATAATTATTCC	714
	3H11 2A11	ATCTAGATATTCTAGGTAATGTCCTATTGTATTTAAAATTTGTAGCAAT A <u>TCTAGA</u> TATATTCTAGGTAATGTCCTATTGTATTTAAAATTTGTAGCAAT	663
	3H11 2A11	TAGTGTTGTCTGTACCTTTGGTGTGAAGAATATGAATAAAGGGATACATAT TAGTGTTGTCTGTACCTTTGGTGTGAAGAATATGAATAAAGGGATACATAT	612
		TCAATGATCTATCGATCGATCTATCTATCTATTTATCTGTCTCTGCGCGTA TCAATGATCTATCGATCGATCTATCTATCTATCTATCTGTCTCTGCGCGTA	561



2A11	THILDICHERCSSHSDET
PAIb	GSPLCRCIPAGLVIGNCR
Barley chloroform methanol-soluble protein d	TNLLGNCR-FYLVQQTCA
Wheat & amylase inhibitor 0.28	VSALTGCR-AMVELQ CV
Wheat albumin	VPALPACRPL-LRLQ-CN
Miller bi-functional inhibitor	NNPLDSCRWYVSATER.I
Castor bean 2S small subunit	QQHLRQCQEYIKQQYZGQ
Napin small subunit	A Q ML RACD Q WL N K Q A MQ S

2A11	GENOM.				
	10	20	30	40	50
CTCC	SAGCCCT	TTAAAAAGTA	TAGTCAATAT	TTACGGTGAC	CGTGAATTTC
	60		80		
TTAA	TTATGA	TATATAATTT	AAAAGAAATO		
	110	120	130		
AGAA	CATGTG	CTAATCAAGG	GAAAACATGG	ATGTGAAAAA	
	160	170	180	190	
TAAA	AGTAAA	AAAAAATGTG	AAATTTTGTT	AGTTATTTAC	
	210	220	230	240	
TTAT	TTGAGC	ATGTGCAAAC	TTTACAAATA	CCTAATAGAA	GATTTTCACC
	260	270	280		
TGCC	TGTATA	TATGTAAATT	AATTATAATG		
	310	320	330	340	350
ТТАТ	CAGTAT	ATACATTAAT	ACTTGCCCTC		
	360	370	380	390	400
CTAC	AACATG	ATCTACACTT	CAATAAAACT	·	AGAATAATTT
GIAG	410	420	430		
<i>~</i>				440	450
CAAA	ATATAC		AATAAATTAT	TTGCATATTA	
	460	470	480	490	500
CTAA	ACAATC				
	510	520	530	540	550
CTCA		AGCACTTGTT			AGGTAAGCAA
1 mm c	560	570	580	590	600
ATTG	ATGGTG		ACAAGTAAAA		,
	610	620	630	640	650
I MAM	ATTGTT	TTTTACTTTC		ATTATCAATA	
CT & C	660	670	680	690	700
GIAG	GTTAAT		ACTTCTTGTT	GAATTAAAGC	AATAAGACAA
c	710	720	730	740	750
GAAT	ATTAAA	GATAAAAGAA		AGAAAGACTA	
	760	770	780	790	800
GTTT	TCTTAT		ATAAGTATCA		ACAATATAAA
	810	820	830	840	850
TTTT	TGTATT	TTTGATCTAT			AAGCATACAA
	860	870	880	890	900
AAGA	TCAGTC		CTTTAATCAT		AAAGAGATTA
	910	920	930	940	950
TGAA			AATAATAGTC		GGGGTTATCT
	960	970	980	990	1000
TTAT.			AAGTAATGGA		
	1010	1020	1030	1040	1050
TTTT			TTACACTATA		ACACTTTCCC
	1060	1070	1080	1090	1100
TTAA	ACATCT	AGGTATAAAT	AATGAGTCTT	GTCAAAATCT	TAGTAGGAAA

1110	1120	1130	140	1150
AATTCTCTCA	ΔΑΤΤΤΤΤΤΤΑ	GTGAAAACAA	ATGATATAAA	TATCTTGAAT
1160	1170	1180	1190	1200
አርጥር አጥጥ አጥጥ	TGTTGTCTCA	TTAAAAATCT	TATCTGACCT	ATAAAATAAA
1210	1220	1230	1240	1250
ተተለተተተርርጥ	AACTCAAAAT	AGTTTTTCAT	TCTAAAATTA	GTATAATTAT
1260	1270	1280	1290-	1300
TACTCAATAT	TTAATTAACA	TAATTGTATA	CTAAGGGGCC	TATAAATTGG
1210	1320	1330	1340	1350
7 TOTO	AAGAAAAATA	AAATCACCAC	ACAACTTTCT	TCTTCTGCTC
1260	1370	138	31 -13	190
1300	AATTAATCCA	ANACCATT AT	G GCT GCC A	AA AAT
ATCAATTAGC	AATTAATCCA	ME	T Ala Ala I	vs Asn
1 2 2 2	1408	1417	1426	3,3 11311
1399	AAG TTT GO	ጉሙ አጥሮ ጥጥሮ ባ ተጓደነ	יתר כתיה כתיה	כייי יייכ
TCA GAG ATO	r Lys Phe Al	a Tla Pha E	the Val Val	Tau Tau
	r Lys Pne Al	a tre the t	1464	1474
1435	1444	1454		14/4
	TTA GGTTC			
Thr Thr Th:	r Leu 1494			
1484	1494	1504	1514	1524
TCTTAATTTC	TTGGAAGTCA	TATGCATGTG	TTTGGTATCA	TGGTATATAT
1534	1544	1554	1564	1574
ATAAAGGAAA	ATATTTTTCT	TAATTACTGG	TTTTCTAATG	TTTGGTAGGT
1501	1594	1604	1614	1624
AATCGGAAAT	TATTATGAGA	TAATGAACTT.	GCAAAGTCAT	TATTATATAA
1634	1644	1654	1664	1674
CTTTTTTTT	ATACTTTGAT	TTAAGAATTC	ATTTTTCTCA	TTTTATATAA
1684	1694	1704	1714	1724
ACTTATTTT	CAACAGAAAA	TATTTTTCGA	. ACTATTCAAA	CACACCCTAA
1734	1744	1754	1764	1774
GACATTACAT	ATATATATAT	ATACACCETC	CGTTTTATAT	TACTTAATGC
1794	1794	1804	1814	1824
CTATTGAGTT	GGCCCACCCT	TTAAGAATGA	TTCAATTAGA	GATATGTTTT
1834	1844	1854	1864	1874
ACTABATTAA	CCTATGCTTT	AAGACTCTAA	ATTTGGCTAT	TACTATTTTA
1884	1894	1904	1914	1924
CCTTCTAATT	TAATGACAAA	CATTTCATAA	TGACTATAGT	CTGAACTTAA
1034	1944	1954	1964	19/4
ተሁይ ፤ ጊዜ ጊዜ ጊዜ ታለጥጥ	GTATCTATAG	TTTGCTTACT	AATGATTCAT	AGCTATATAT
1984		2004	2014	2024
ያ መመረር ነር	GAGAGACAAA	ССАТАТТААС	AAAGGGAGGA	
		2054	2064	2074
2034	AATAGAGAAG	ACADACCOA		
			2114	2124
2084	ZU94 TATTATTTT	ጀታህ። ለጥጋጥለጥርጥሽ	CGTTTACATT	ACAGTTTTCG
IACITITGAL	TWITWITT	WITHINIGH		

2134 2144 2154 AATTCTTACA TTAATCTTAA TCATAATATA TACA GTT GAT ATG Val Asp MET 2173 2182 2191 2200 TCT GGA ATT TCG AAA ATG CAA GTG ATG GCT CTT CGA GAC Ser Gly Ile Ser Lys MET Gln Val MET Ala Leu Arg Asp 2218 2227 2236 2245 ATA CCC CCA CAA GAA ACA TTG CTG AAA ATG AAG CTA CTT Ile Pro Pro Gln Glu Thr Leu Leu Lys MET Lys Leu Leu 2272 2254 2263 CCC ACA AAT ATT TTG GGA CTT TGT AAC GAA CCT TGC AGC Pro Thr Asn Ile Leu Gly Leu Cys Asn Glu Pro Cys Ser 2299 2308 2317 TCA AAC TCT GAT TGC ATC GGA ATT ACC CTT TGC CAA TTT Ser Asn Ser Asp Cys Ile Gly Ile Thr Leu Cys Gln Phe 2335 2344 2353 2326 2362 TGT AAG GAG AAG ACG GAC CAG TAT GGT TTA ACA TAC CGT Cys Lys Glu Lys Thr Asp Gln Tyr Gly Leu Thr Tyr Arg 2371 2380 2393 2403 ACA TGC AAC CTG TTG CCT TGA ACAATATCAA TGATCTATCG Thr Cys Asn Leu Leu Pro . 2433 2413 2423 2443 ATCGATCTAT CTATCTATTT ATCTGTCTCT GCGCGTATAG TGTTGTCTGT 2473 2483 2463 2493 ACCTTTGGTG TGAAGAATAT GAATAAAGGG ATACATATAT CTAGATATAT 2523 2533 2513 2543 TCTAGGTAAT GTCCTATTGT ATTTAAAATT TGTAGCAATG ATTGTTTGAA · · · 2563 2573 2583 2593 TAAAAACATA CCATGAGTGA AATAATTATT CCACATTAAT TCACGTATTT 2623 2633 2643 ATTTCACTTA TGATACGTAT TTTTGTTCCT TTCGCGTAGA TTTTTGATCC 2673 2663 2683 2693 TTTTCCCTTT TGAATATTAA ACATTAAACA CAAATAATGT TTATTAAATT 2713 2723 2733 2743 AAGTTAATAT TTTTATTTAG CTATTTATAT TTTTATTTGA AATCAAACTT 2773 2763 2783 2793 GATAAATATT TATAAAGATA ATTAACAAGT AATGTGACAC TAACACCATG 2823 2813 2833 2843 TAATATTATC TTGTCGTTAT TTATGATAAT ATTTTAAAAT TATAATTTCA 2863 2873 2883 2893 GTTAAAAAAT TATTAAAAAA ACATACTTTT AAAAAGTGAG TTAGCCTCCG 2923 2913 2933 2943 CTACCCACAT ACTTATGAAT TGGACTAGTT GTTTTTTGAC CCACAAAAAG 2973 2983 2993 2963 AATGGGCTAA TTAAACCTGA CCTATCAAAT TTCAGAATCT GCATAGATTA

2012	2023			
3013	3023	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	304.	3 3053
GICCGAACGA	AATGAGTCAG	CCCGTATTGA	ACAAAATAT	C AACAAGGACG
3063	30/3	3083	309:	3 3103
TTATGTAAAG	ATGTTTAAGA	AGGAAAAAAG	ATTTCTAAT	A CATATGGACT
3113	3123	3133	. 31/4	3 2162
TTCAATATCC	CAACTTTGTC	TGGCGATCTG	AACCCTGCT:	AGTTTGTTGA
3163	3173	3183	319	3 2202
TCATTAACTT	GTCTTGCTAT	' GTATTTAAGA	TTTAAACTTT	C ATATCTTTAA
3213	3223	3233	3241	3050
ACTTACAGAA	AATACATATA	. AATCTCTCAA	GACTTGGCA	A CATAATTTAC
3263	3273	3283	3293	3 2202
TTTAGTACTT	AAACTACATG	AAAATTTAAA	TATCCTTTT	ACATCTTTGA
3313	3323	3333	3743	2257
AGTGAATTAA	ATTATCACAA	TCCGAGCCTA	CACCTTGGAC	GTGGCCGGCA
3363	3373	3383	3393	3403
CTCAAGAACC	AGTGCTGGTC	CCCAAGCTAA	CCCTCATCCT	GACTGACTAC
3413	3423	3433	3443	3453
		TATACAAAAG	רדים מממידים	AATAAAATAA
3463	3473	3483	3/02	
	GTTTTA ACAC	AAATCAACAA	2473 7 CTTTTTT	3503 AATAATATAT
3513	3523	3533	CITIGAAGAA	AATAATATAT
TCAACTAĞCC	ATAAAATAGA	CAACTTTAGT	CTTT 3 3 3 C 8	3553 TTTAATAAAA
3563	. 3577	ี จรดว	2502	3.00
TAAATGCAAA	ATATAGACTC	CTTAACTAAA	-CTCACTATCT	ATCCACCCTC
3613	3623	3633	7647	2652
TAATTGATAA	AGATGGAAGT	CGGGACAAGA	CCACGACATÓ	CTGACTAAAC
3663	3673	3683	1607	2702
TGAGAAGTAA	ATAAAATCCC	CCGGAAAAA	AGGAGCCTCA	CCATGGCTAA
(3/13	3723	3733	3743	3753
CTCGAACTCG	GGGATATATC	AATGAAGCTC	CTGTTGATGA	TCTTGAAGAC
3763	3773	3783	3793	3803
ATGTCTCTGC	ATCATCAAAA	AGATGCAGGC	CAAATGGCTC	2002 **********************************
3813	3823	3833	3843	
	ATGTAAGGGA	AATTCTAAAG	CFOC KKTK7KKTKT	3853
4 3863	3873	3883	3893	
TGAATAAAAG	GAAACATACT	TACCTCTTTT	CEOC	3903
3913	3923	3933	3943	
	CAACTCAAAG	ATTAGGTATT	C	3953
3963	3973	3983	3993	
ACTCAATGAA	GTACAAATTA	ACTCAGGATA	CTCGACTTA	4003
4013	4023	4033	4043	4053
	CAACTGAACT	CATTTCAATA	TAAAGCAGCT	CCUP TOKKOKKAK
4063	4073	4083	4093	4102
TCAGTATAAA	GTAAAGTTGT	TTAAAAACAT	GATGTCAACT	CULF
4113	4123	4133	4143	4153
AATAAGGGAT	ACAACATAAC	TTTGAAATGT.	ATATAAAAT	
		_ _		· · · · · · · · · · · · · · · · · · ·

411	4173	4103	4100	
		4183		
GATGTATATA	AAAATACATT	AATCTATGGG	AGATTCTCTA	ACCGACAACC
4213	4223	4233	4243	4253
ATCACTTAAG	GGCTAAGATG	ATGATATAGC	GATCTACCGC	ACGCTGCCAT
4263	4273	4283	4293	4303
CGCATCTTAT	ACCCGGCCAA	AGGTATAAGA	CCTGAACTGC	CTAATGAATC
4313	4323	4333	4343	4353
CACTAATAAA	CTGTTAAAAG	GAATCATCTA	AAAAGTATGA	CCCTTTTCTA
4363	4373	4383	4393	. 4403
CCCATAGTGG	CTAACATGGT	TTATGGGGGC	TGTGAGTTAT	CTGAACTCTC
4413	4423	4433	4443	4453
CCCCATATCG	GTGCTCAATA	CTACTCCAAA	AAATATACTG	CTCTTATGTT
4463	4473	4483	4493	4503
TAAAAACATA	CTGATTCTGT	GGTTTGAAAT	TATTGCTTAA	AGCTTAGATT
4513	4523	4533	4543	4553
TTTGAAAAGC		AAATCGTAGT	TTCCTTTTTC	TTCTATTAAA
4563	4573	4583	4593	4603
GCTAGACATA	GGCTATGTAG	AACTCTAGCT	TACCTTCCTT	CTCAAAAGTT
4613	4623	4633	4643	4653
TGAAAACATT	TGCTTAGATT	CTTAGGGACT	ACTTAGTTCC	CTTGTTGGAA
TTC			•	

PG GENOMIC

10 AAGCTTCTTA	20 AAAAGGCAAA	30 TTGATTAATT	40 TGAAGTCAAA	50 ATAATTAATT
60 ATAACAGTGG	70 TAAAGCACCT	80 TAAGAAACCA	90 TAGTTTGAAA	100 -GGTTACCAAT
110 GCGCTATATA	120 TTAATCAACT	130 TGATAATATA	140 AAAAAAATTT	150 CAATTCGAAA
160 AGGGCCTAAA	170 ATATTCTCAA	180 AGTATTCGAA	190 ATGGTACAAA	200 ACTACCATCC
210 GTCCACCTAT	220 TGACTCCAAA	230 ATAAAATTAT	240 TATCCACCTT	250 TGAGTTTAAA
260 ATTGACTACT	270 TATATAACAA	280 TTCTAAATTT	290 AAACTATTTT	300 AATACTTTTA
310 AAAATACATG	320 GCGTTCAAAT	330 ATTTAATATA	340 ATTTAATTTA	350 TGAATATCAT
360 TTATAAACCA	ACCAACTACC	AACTCATTAA	TCATTAAATC	400 CCACCCAAAT
410 TCTACTATCA	AAATTGTCCT		AAAACAAGAC	
460 GAGTCCGAAT	CGAAGCACCA		GGTTGAGCCG	500 CATATTTAGG
510 AGGACACTTT	CAATAGTATT		ATGAATTTGA	
560 TAATGGTAAA	GAAGTAGTAC	ATCCCGAATT		TTTTTTAAAT
	AAATATTTAT	630 GATTTGTTTT	640 AAATATTAAA	650 ACTTGAATAT
	TAAAAATTAT		CCATCACATA	
710 AGGAATAATT	720 AAGATGAACA	730 TAGTGTTTAA		

760 AATTTATTTA	770 TAAATTATAT	780 CAATAAGTTA	790 AATTATAACA	800 AATATTTGAG
	820 TTTAAAAAAT			
860	870	880	890	900
	ATTTTGAACC			
910	920	930	940	· 950
CAATAGGRGG	ATGAGAAGGA	TATTTTGAAG	CCAATATGTG	ATGGATGAAG
960	970	980	990	1000
GATAATTTTG	TATCATTTCT	AATACTTTAA	AGATATTTTA	GGTCATTTTC
1010	1020	1030	1040	1050
CCTTCTTTAG	TTTATAGACT	ATAGTGTTAG	TTCATCGAAT	ATCATCTATT
1060	1070	1080	1090	1100
ATTTCCGTCT	TAAATTATTT	TTTATTTTAT	AAATTTTTA	AAAATAAATT
1110	1120	1130	1140	1150
ATTTTTTCCA	TTTAACTTTG	ATTGTAATŢA	ATTTTTAAAA	ATTACCAACA
1160	1170	1180	1190	1200
TATAAATAAA	ATTAATATTT	AACAAAGAAT	TGTAACATAA	TATTTTTTA
1210	1220	1230	1240	1250
ATTATTCAAA	ATAAATATTT	TTAAACATCA	TATAAAAGAA	ATACGACAAA
1260	1270	1280	1290	1300
AAAATTGAGA	CGGGAGAAGA	CAAGCCAGAC	AAAAATGTCC	AAGAAACTCT
1310	1320	1330	1340	1350
TTCGTCTAAA	TATCTCTCAT	CCAAACTAAT	ATAATACCCA	TTATAATTAA
1360	1370	1380	1390	1400
CCATATTGAC	CAACTCAAAC	CCCTTAAAAT	CTATAAATAG	ACAAACCCTT
1410	1420	1430	1440	1450
CCCATACCTC	TTATCATAAA	AAAAATAATA	ATCTTTTTCA	ATAGACAAGT
1460	1470	1480	1490	1500
TTAAAAACCA	TACCATATAA	CAATATATCA	TGGTTATCCA	AAGGAATAGT

1510 ATTCTCCTTC	1520 TCATTATTAT	1530 TTTTGCTTCA	1540 TCAATTTCAA	1550 CTTGTAGAAG
1560 CAATGTTATT	1570 GATGACAATT	1580 TATTCAAACA	1590 AGTTTATGAT	1600 AATATTCTTG
AACAAGAATT	1620 TGCTCATGAT	TTTCAAGCTT	ATCTTTCTTA	TTTGAGCAAA
1660 AATATTGAAA	1670 GCAACAATAA	1680 TATTGACAAG	1690 GTTGATAAAA	1700 ATGGGATTAA
AGTGATTAAT	1720 GTACTTAGCT	TTGGAGCTAA	GGGTGATGGA	AAAACATATG
1760 ATAATATTGT	1770 AAGTATTTAA	1780 ATATTGGAAT	1790 ATATTTGTGG	1800 GGATGAAAAT
GATAGAGAAT	1820 ATAAGAATTA	TTTGGAAGGA	TGAAAAGTTA	TATTTTATAA
AGTAGAAAAT	1870 TATTTTCTCG	TTTTTAGTAA	TTAAAGGTGA	AAAATGAGTT
TTCTCGTAAG	1920 CGAGGAAAGT	CATTTTCCAT	GGAACTGTAT	TTTTTTTTA
CTTTTAATAA	1970 CGTCATAGTA	TTTGCTATAC	TCAAGAATAA	GACACTATTA
2010 TTGATGTTTA	2020 GTGCTCGAAA	AGAAATTGAT	AGTAATTTIG	CTAATATAAC
	TTATATGTAT	ATTTTTCAAC		AAGCGTAATC
CAATAAGTGG	2120 GCCTCTAGAA	TAAAGAGTAA	GTTCTATTAA	TTCTTAACCT
2160 TATTTAATTT	2170 TATGGAAACC	2180 TCGACAAAAC	2190 GACAATGCTC	2200 AACTTATATT

CGAATTC

FIGURE 8C

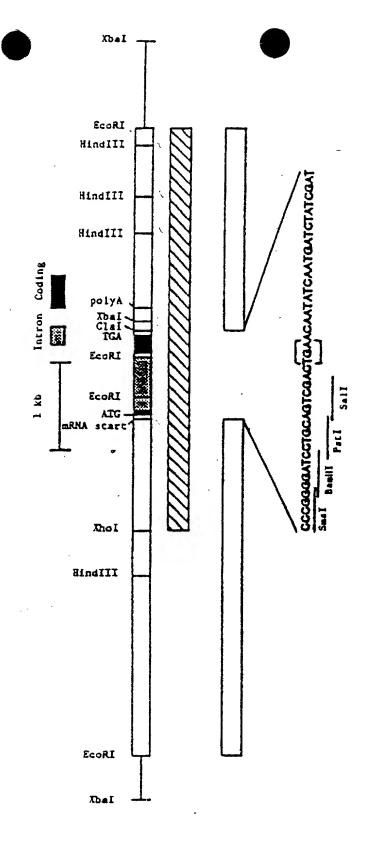


FIGURE 9

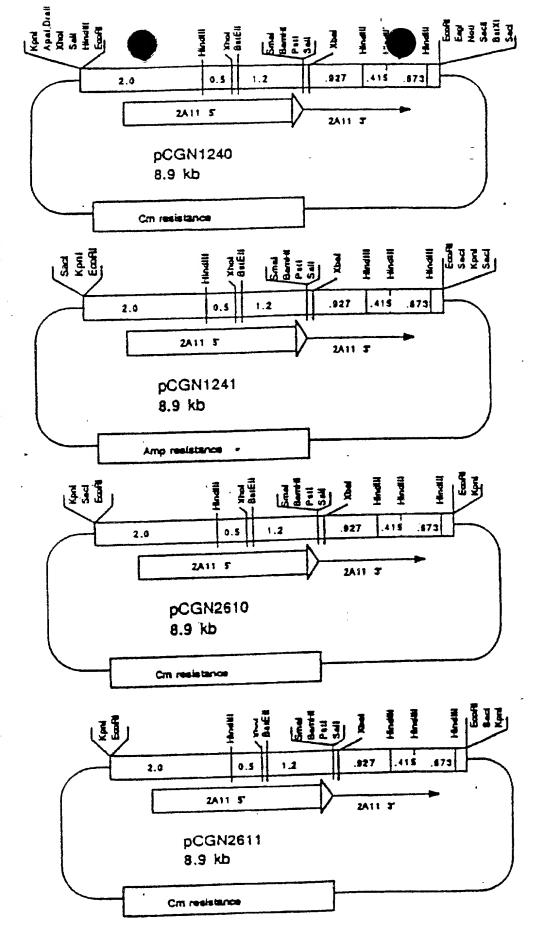


FIGURE 10